



An Informative Full-day Seminar:

Industrial Robot Safety

1 Who Should Attend . . .

This seminar is a must for anyone concerned about health and safety on the job including:

- ▶ Managers concerned about liability and workers' compensation costs.
- ▶ Employees who want to learn proper techniques for protecting their safety and health at work.
- ▶ Business owners who want to learn about compliance with Michigan Occupational Safety and Health Administration (MIOSHA).

2 Why You Need This Seminar . . .

- ▶ To reduce disabling injuries and illnesses to employees - and to ensure that every worker goes home safe and healthy every day.
- ▶ To reduce the high costs of work-related injuries. Nationally, employers spent an estimated 50.8 billion on wage payments and medical care for workers hurt on the job (*Liberty Mutual Safety Index 2005*). This is only a portion of the total costs of work-related injuries. Indirect costs such as overtime, training, and lost productivity can also burden employers.
- ▶ To enhance your company's bottom line. A strong safety and health commitment not only protects workers, it also reduces workers' compensation costs, improves employee morale, and increases production and quality.

3 What You'll Learn . . .

More and more manufacturing entities are utilizing industrial robots due to the precision and consistency they bring to dangerous, dirty, boring, heavy, and repetitive tasks in the workplace. Robots allow workers to focus more on the quality and quantity of parts required for today's production needs. Although there are no specific MIOSHA standards for robots, the employer is still required to provide proper guarding to protect employees from the hazardous movements of the robots during normal production tasks performed by the employees.

This seminar will discuss the history, use, and emerging technology specific to industrial use of robots. Discussion will focus on the "how to" of robotic assessment and guarding strategies as required under MIOSHA compliance standards applicable to the safe use of robots in industrial settings where employees are required to interact with robots to do programs, set ups, and operations for production.

Agenda

We offer a flexible program agenda to emphasize the health & safety topics you want most.

- ▶ History of Industrial Robotics
- ▶ Prevention of Robotic Accidents
- ▶ Guarding Requirements Under MIOSHA
- ▶ Types of Robotics
- ▶ Teach Pendant and Other Control Systems
- ▶ Maintenance and Setup Tasks

All meetings are accessible and barrier free. Please contact the cosponsor or CET Division, at least two weeks in advance, to request necessary accommodations.

Facilitator

Jeff Kelley joined the Consultation Education & Training Division after spending over 15 years as a MIOSHA compliance officer. Jeff has provided training & assistance to employers and employees in the Macomb, St. Clair, and Wayne counties for the past three years. While working as a MIOSHA compliance officer, Jeff increased his knowledge in power presses, both hydraulic and mechanical, wood working and metal working machines, and other manufacturing operations. As a compliance officer Jeff investigated over 75 workplace fatalities, and hundreds of industrial accidents.

Before joining MIOSHA in 1990, Jeff spent several years as a safety committee leader in a large chemical company, where he also worked as a maintenance and machine repairman, welder, fabricator, and apprentice electrician.



Jeff Kelley

*Senior Occupational Safety Consultant,
MIOSHA, CET Division*

Program Details

DATE: September 28, 2011
LOCATION: Macomb Community College - M-TECSM
7900 Tank Avenue, Room 138
(Van Dyke and 11½ Mile)
Warren, Michigan 48092
COST: \$80 per person.
Includes lunch and course materials.

TIME: Check-in - 8:30 a.m.
Program - 9:00 a.m. to 4:00 p.m.
DEADLINE: Register by September 21, 2011
Please register early!
CONTACT: Yvonne Morosky-Grant - 586.498.4106
or moroskyy@macomb.edu

COSPONSOR: *Macomb Community College*

If this valuable seminar doesn't fit with your schedule or position, please pass this flyer on to a colleague.

How to Register

Industrial Robot Safety

Four Easy Ways to Register:

- ▶ **Phone:** 586.498.4055
- ▶ **Fax:** 586.498.4058
- ▶ **Email:** hst@macomb.edu
- ▶ **Mail:** Macomb Community College
Health & Safety Training Office
Attn: Madeleine White
21901 Dunham Road
Clinton Township, MI 48036

Course Number # MSHA 8024

**Please Make Check or Money Order
Payable to Macomb Community College**

Complete Separate Registration Form for Each Attendee

Name: _____
Company Name: _____
Address: _____
City: _____ State: _____ Zip: _____
Phone: _____ Fax: _____
Email: _____
Birth Date: _____ (Needed for Registration)
Print Credit Card Holder's Name: _____
Credit Card # _____ Exp. Date: _____
VISA ☐ MC ☐ Disc ☐ Signature: _____

The meeting site and parking is accessible. Individuals attending the meeting are requested to refrain from using heavily scented personal care products, in order to enhance accessibility for everyone. People with disabilities requiring additional services (such as materials in alternative format) in order to participate in the meeting should call 517.322.1809. The Department of Licensing and Regulatory Affairs is an equal opportunity employer/program.